Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No. 1st & Final Bill Date.....2018

Zone:**BBMP,Yelahanka** Division:**BBMP, Byatarayanapura** Sub-Division:**BBMP, Kodigehalli**

Bill Received No. Dated Divisional / Sub-Divisional Cash Book Voucher No.....Dated.....

Job Code: 007-17-000039

Schedule Docket No. Head of Account: P3110 Est.Cost: Rs.25.00 Lakhs D.R.NO.:

Name of Work : Providing water supply and other works at ward no 07, Byatarayanapura, Kodigehalli Sub Division

Name of Contractor and Full Address: Executive Engineer , K.R.I.D.L, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-10

Reference to Agreement No. BBMP/EE/BTP/WO/79/2017-18 Date: 02.03.2018

Certified that the measurements were taken by me on: 02/08/18 and recorded of Pages **424050** to **424062** of measurement Book No. **4241/2017-18** and that work is satisfactorily executed.

Contractor Officer-in-charge of work

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Certified that measurement were taken by me on 7/8/18 / /2018 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Accont have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

1) Total value of work done or supplies made as per account within	Amount Total:	22,70,896-00
2) Deduct amount to be held in reserve being.....Percent Rs.....	IT -	45418-00
3) " Balance	CM -	22709-00
4) Deduct Payment:	CBF -	2271-00
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No..... adjusted towards cash advance recovery of	LR -	20438-00
	FSD -	113545-00
b) Payments cost store or other material supplied.	Fine -	3150-00
Now made recovery of amount creditable to this /other work		
Amount paid on this bill Cheque/Cash.	Total amount adjusted	2,07,531-00
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated .....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.		
8) Advance to Contractor for materials brought to site (as detailed) within		
9) Value of Government materials supplied.		
Contractor's Signature	Cheque:	20,63,365-00

Received Rs.....(in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands)

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

(For use in the Office)

Witness
1
2

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Stamp

Dated Signature of Contractor
Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....
Initials of Officer making payment

ನಿವ್ವ ಮೊಬಲಗು ರೂ 22,70,896-00
ಮಾಡಿದೆ: ಇದರಲ್ಲಿ ರೂ 2,07,531-00
ಸಂದಾಯ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು 20,63,365-00
Rs: Twenty Lakhs Sixty Three Thousand Three Hundred Sixty Five only.
ಈ ಮೊತ್ತಕ್ಕೆ ನೀಡಲಾಗಿದೆ

Executive Engineer

Sl. No.	Items grouped under sub-Heads and Sub-Works of the Estimate Description	Unit
1	KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1, No. 5 / Item No. 2.1	Cum
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12 / Item No. 4.3 /	Cum
3	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23 / Item No. 5.6 /	Cum
4	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / Item No. 5.9 /	Cum
5	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification No. KBS 2.9 Page No. 6 / Item No. 2.10	Sqm
6	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6	Cum
7	Providing flooring with 60 cms.x 60 cms. size Vitrified glazed tiles of approved quality & make, fixed on top of existing flooring fixed with suitable adhesive, including cutting the tiles to the required size and fixing etc., complete Page No. 107, Item No. 14.44,	Sqm
8	KSRB 14.6-1: Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of	Sqm

Previous Measurement		Present Measurement			Total Upto Date	
Qty	Rate Rs. P.	Qty	Rate Rs. P.	Amount	Qty	Cost
-	-	114.37	169.56	19392.58	114.37	19392.58
-	-	55.03	5256.36	289257.49	55.03	289257.49
-	-	6.03	4521.96	27267.42	6.03	27267.42
-	-	2.71	5405.4	14648.63	2.71	14648.63
-	-	114.37	137.16	15686.99	114.37	15686.99
-	-	34.05	5876.28	200087.33	34.05	200087.33
-	-	8.32	1154.52	9605.61	8.32	9605.61
-	-	12	984.96	11819.52	12	11819.52

9	Providing revsrse osmosis suystem to cover 2000 Liters of High TDS water per hour	Nos
	TECHNICAL SPECIFICATIONS	
	RAW WATER PUMP	
	Purpose:- To feed the Dual Medial filter at pressure more than 2.00 bars which is min operating pressure for filter?	
	SAND MEDIA FILTER	
	Purpose:- To remove the total suspendred solids, dirt, iron and reduce silt density index which can foul the members	
	ACTIVATE CARBON FILTER	
	Purpose:- To remove the total color, smell, odor from the water.	
	Purpose : To dose anti scaling chemical to protect the scaling formation on RO Membranes	
	MICRON FILTER	
	Purpose : To remove the fine particles ip to 05 microns and reduce silt density levels to acceptable level.	
	HIGH PRESSURE PUMP	
	Purpose : To feed the reverse Osmosis membrane at pressure more than the osmotic pressure taking into consideration flux rate, flow and recovery	
	RO membrane housing.	
	Purpose : To pack membrane and operate at high pressure.	
	RO MEMBRANES	
	Purpose : To remove the major part of TDS into 98% by Reverse Osmosis Membranes arranged and designed to give adequate flow the Recovery.	
	RO CLEANSING SYSTEM	
	ELECTRICAL PANEL	
	Purpose : A control panel is provided as a safety measure for the pumps & other electrical items.	
	Specifications a) Complete starters, overload relays, b) Voltmeter, Ammeter, MCB's indicating lights, c) Rocker switches for Dozers, d) incomers, Auto-Manual switches.	
	INSTRUMENTATION	
	PH DOSING SYSTEM	
	Purpose to dose sodium Bi-carbonate for enhances product water SS till the pre-filteration & SS from HPP to thhe premeter line termination point NRV's pressure relief valves, wherever needed the system will be on common SS base frame supply & manufacture of complete Reverse Osmosis plant stainless steel tank (2kl) Raw water tank (5kl) with stainless steel pipe line required for plant erection.	
10	Providing and Construction of pup panel cabin MS material vetical 50 x 100 mm thick tube, rafter 50 x 100 mm thick rectangle tube`50 x 50 mm thick tuve purlines, roof panel of 30 mm sandwitch puf panel density : 40 kg and wall panel of 30 mm sandwitch puf pannel density : 40 kgs (polyurethane foam) with noth side G I Colour coated sheet ancillaries like C-channels, angles, sealene etc, door of size 1.8 x 2.0 m an alluminium powder coated window of size 1.00 x 2.00 m 1 No of structural glazing (fixed and sliding One side slope as per elclosed drawing cabin of size etc (Approved Quoated Rate) (10 x 8Ft)	Nos
11	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Asphalt surface road. (P-257, It-37.38)	Cum
12	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Cement Concrete road. (P-257, It-37.40)	M
13	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to depth not less than 15cms with gravel or selected earth available from the excavation etc. complete PRED SR 2012-13 (P-14, It,-3.4.2a) 63mm dia of 6Kg/Cm2	Cum
14	Refilling the basement and pipeline trenches with selected available earth from trench excavation including watering, Consoldation in layers of 15cm thick including disposing of the surplus earth with a lead of 200 Meters.PRED SR 2012-13 (P-3, It,-1.6)	Nos
15	KSRB 13-6.2-2: Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS . 20mm dia nominal bore.13.2.2/13.3(P-91, It.No.13.27)	Nos

-	-	1.00	946000.00	946000.00	1.00	946000.00
-	-	1.00	250204.80	250204.80	1	250204.80
-	-	26.82	367.20	9848.30	26.82	9848.30
-	-	54.90	655.56	35990.24	54.9	35990.24
-	-	1088.00	115.36	125511.68	1088	125511.68
-	-	220.30	115.36	25413.81	220.3	25413.81
-	-	20.00	167.48	3349.60	20	3349.60

16	KSRB 13-6.3-7: Providing and fixing in position brass gate valve with C.I.wheel of approved quality (screwed end) 65mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 20mm dia nominal bore.13.37, (P-92, It.No.13.37)	Nos
17	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)	Cum
	Total	
	Add 11% K.R.I.D.L Charges	
	Add 1% Labour Cess Charges	
	Total	

CRTIFICATE:

1. Certified that the above work done satisfactory and no materials issued from Department

AE (Ele)

-	-	20.00	2175.12	43502.40	20	43502.40
-	-	0.00	106.00	0.00	0	0.00
				2027586.41		**2027586.41**
				223034.50		223034.50
				20275.86		20275.86
				2270896.78		**2270896.78**

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